adapted for driving the screw propeller direct, as the engine shaft has only to be extended through the vessel, and have the propeller fixed to it; it would thus enable sailing vessels which cannot spare much room to adopt the screw as auxiliary power. The disc engines are now made entirely from wooden patterns, and every wearing surface, it is said, can be refaced, or renewed, as in engines of the common construction. We cannot but think that this engine ought to come into general use.

Miscellanea.

PROJECTED WORKS.—Advertisements have been issued for tenders, by 5th July, for the enlargement of the British Orphan Asylum, Clapham Rise; by dates not specified, for the erection of the St. Martin's Northern Schools, and for the erection of Sketty new church; by August 6, for the enlargement of the London-bridge station of the London and Brighton Railway; by July 11, for the erection of St. Matthias's Church, Weir district, Bristol; by 7th, for the restoration and additions of the masonry, carpenter, slating, and plaster works of the parish church of Irthington; by 30th inst., for the erection of a butter cross, at Knighton (Hereford); by same date, for building a covered corn exchange, at Bedford; by 2nd July, for the erection of a national school-room and master's house, at Beverley; by 2nd, for building a sea wall at Bowness; by 16th, for the erection and completion of bath rooms at the Shaw Heath Union Workhouse, Stockport, and for making drains and main sewers there; by 11th, for keeping in repair the public conduits and other waterworks at Southampton, for two years; and by 10th, for 400 waggons for the Great Northern Railway.

COMPETITIONS, &c.—Advertisements have been issued for plans by July 18, for additional accommodation for 300 inmates, at St. Luke's workhouse, Chelsea. Premiums, 25*l.* and 10*l.* Also for plans, drawings, and estimates, by September, for a church at Cheltenham, to contain 1,000 persons, at a cost of 4,000*l.*—The London and South-Western Railway Company require a principal resident engineer experienced in designing and constructing railway works, and stations, &c.

THE CHURCH BUILDING SOCIETY held its usual meeting on Monday week, when grants were made in aid of the erection of new churches at the new district of All Saints, Leeds; at Gravesend, for a district of that parish; towards rebuilding the churches at Virginstow, near Launceston, and East Walton, near Haverfordwest; enlarging the churches of St. Stephen, Islington, and Compton, near Petersfield; re-arranging the interior of the churches at Llanfihangel-Rhoe-y-Corn, near Lampeter; Halstead, Essex; Hinton Charterhouse, near Beckington; Brooke, near Norwich; Sutton, near Stalham; Grately, near Andover; and Cheam, Surrey.

EXEMPTION OF LITERARY INTITUTIONS FROM LOCAL RATES.—In reply to a question from Mr. W. Brown, the Attorney-General said that a bill had been proposed to him on this subject, to two of the provisions of which he entertained considerable objection. The one was that adjustment of disputes should be effected by trial at sessions, a course which would lead to litigation and expense; the other was to the creation of a new office for registration. He thought the machinery of the registry of friendly societies should be made available.—In reply to questions by Mr. M. Gibson and Mr. Bright, the Attorney-General said he would do all he could to promote a measure which did not contain the clauses to which he objected, but whether the Government would think it expedient to introduce the measure was another question. He could not say whether such a measure would be introduced or not.

METROPOLITAN.—The principal figures in the mould of Mr. Carew's "Death of Nelson," for the monument at Charing-cross, have been safely filled with molten bronze from some of the cannon taken by the hero himself in action.——The first stone of the new Fishmongers Almshouses, at Wandsworth, was laid on Saturday last.——Two new churches are to be erected at Lambeth.

BIRMINGHAM SCHOOL OF DESIGN.—On Friday in last week the annual exhibition and distribution of prizes took place at the Society of Arts, New-Street, and was very numerously attended. The Bishop of Manchester was in the chair, and congratulated the donors and subscribers on the progress made since last year. The number of students, as well as their proficiency, had much increased. In the female school the classes are full. Announcement was made of the increase of the Government grant, and the appointment of Mr. Kidd, a modeller, as second master, and of a pupil of last year, Mr. W. O. Williams, as third master. The drawings, models, &c., have since been publicly exhibited.

THE BEDFORDSHIRE ARCHITECTURAL AND ARCHÆOLOGICAL SOCIETY held their annual meeting at Bedford on Thursday in last week, the Archdeacon of Bedford in the chair, when a number of objects of interest were exhibited, the report read, and papers also read, by Mr. M. H. Bloxham "On Conventual Arrangements;" by Mr. T. Bernard "On the Basilicæ of Rome;" and by Mr. Jackson "On Felmersham Church." Others by the Rev. H. J. Rose and the Rev. B. Bridges were deferred till another meeting. Votes of thanks were accorded, and a committee appointed to alter some of the rules of the society.

FLOATING THE TUBE FOR BRITANNIA-BRIDGE.—Tuesday week was appointed for the transport of one of the central and largest tubes of this great work to its place across the Menai straits, near Bangor. From the breaking of a capstan, however, the process was postponed till next day, when it was safely accomplished, in the midst of the acclamations of thousands, mingled with the appropriate and stirring music of the sea-song, "I'm afloat." This tube is 470 feet long, 30 feet high in the centre, and diminishes in height to 22 feet at the extremities. The clear span between the towers, on which it is to rest, is 12 feet shorter. The weight of wrought-iron in the whole is 1,600 tons. It is painted stone colour, and protected by an arched roof of thin corrugated zinc. The masonry work is of as gigantic a character of course as the iron work. The abutment on the Anglesey side is 143 feet high and 173 long. The wing walls of both terminate in pedestals, on each of which are two colossal couched lions of Egyptian design, lifting their lime-stone foreheads in the face of every train, with bullet eyes as large as human heads. The bodies are each 25 feet long and 12 feet high, though crouched; the weight of each is 30 tons. There is some intention of surmounting the central tower with a colossal figure of Britannia, 60 feet high. The great Britannia Tower in the centre of the straits is 62 feet by 52 at its base; total height, 230 feet; it contains 148,625 cubic feet of limestone and 144,625 of sandstone; weighs 20,000 tons; and contains 387 tons of cast-iron built into it in beams and girders. The total quantity of stone contained in the bridge is 1,500,000 cubic feet, in a total length of 1,849 feet. In the scaffolding used there are 570,000 cubic feet of timber and 20 tons of iron bolts. The tube launched on Wednesday week has been compared to the Burlington Arcade. If placed on end in St. Paul's Churchyard it would rise upwards of 100 feet above the top of the cross. Fifteen miles of rope were required in the management of this Gulliver in Lilliput. The slightest change in temperature, gleam of sunshine, or shower of rain, is said to act on these tubes *in situ* in appreciable expansion or contraction and deflection. The cost of the whole structure has been estimated at 600,000*l.* to 700,000*l.*

PUBLIC MUSEUM AND LIBRARY AT SALFORD.—The town council have resolved to provide and keep up the requisite accommodation and attendance for donations, &c., in a mansion-house, in Peel's Park, to which the public will have free access at all reasonable times. A rate of ½d. per pound may afterwards be authorized.

BLIND BUILDERS.—Tenders sent in for pulling down and rebuilding four third-rate houses in George-yard, Whitechapel:—

Palmer	£1,145
Cole	1,050
Tolley	929
Jacobs	906
Hall and Son, Whitechapel	735

HAND WORK.—I said, early in this essay, that hand-work might always be known from machine-work,—observing, however, at the same time, that it was possible for men to turn themselves into machines, and to reduce their labour to the machine level; but so long as men work *as* men, putting their heart into what they do, and doing their best, it matters not how bad workmen they may be, there will be that in the handling which is above all price: it will be plainly seen that some places have been delighted in more than others—that there has been a pause, and a care about them; and then there will come careless bits and fast bits; and here the chisel will have struck hard, and there lightly, and anon timidly; and if the man's mind as well as his heart went with his work, all this will be in the right places, and each part will set off the the other; and the effect of the whole, as compared with the same design cut by a machine or a lifeless hand, will be like that of poetry well read and deeply felt to that of the same verses jangled by rote. There are many to whom the difference is imperceptible; but to those who love poetry it is everything—they had rather not hear it all, than hear it ill read: and to those who love architecture, the life and accent of the hand are everything. They had rather not have ornament at all, than see it ill cut—deadly cut, that is. I cannot too often repeat, it is not coarse cutting, it is not blunt cutting, that is necessarily bad; but it is cold cutting—the look of equal trouble everywhere—the smooth, diffused tranquillity of heartless pains—the regularity of a plough in a level field.—*Ruskin.*

INSTITUTION OF CIVIL ENGINEERS.—On Tuesday, 19th, Mr. Joshua Field, President, in the chair, the paper read was "On the employment of high-pressure steam, working expansively, in marine engines," by Mr. John Seaward. In the course of the evening, the Earl of Rosse, President of the Royal Society, was presented, by Mr. Rennie, to the President of the institution, on his election as an honorary member. On the 26th, the paper read was "Observations on the Obstructions to Navigation in Tidal Rivers," by Mr. J. T. Hodgson. This was the last meeting of the session.

ESSEX COUNTY LUNATIC ASYLUM COMPETITION.—The committee of magistrates appointed to receive designs and carry into execution the erection of the above asylum, have chosen that of Mr. H. E. Kendall, jun., for adoption. It is in the Tudor style,—to accommodate 400 patients,—and is to be erected near Brentwood.

TENDERS.

For repairs and repewing West Ham parish church, Essex: Mr. C. Dyson, surveyor.

Reed	£1,992
R. and E. Curtis	1,998
Revett	1,789
T. Burton	1,659
Kirk and Parry (accepted)	1,640
Gleun (omitted to comply with the form of tender)	1,616

For a new church to be built in the Bethnal-green-road.

Little	£7,440
Ward	6,178
Holland	4,970
Curtis	5,953
Higgs	5,896
Ashby	5,733
Wood	5,696
Grimsdell	5,619
Haynes and Co.	5,537
Myers	5,489

For rebuilding a farm (burnt down in March last) belonging to Mr. Clover, of Kirklington, Cambridgeshire; Mr. C. Clark, architect:—

Frost	£1,397	10	6
Reid	1,095	0	0
Quinsee and Co.	1,045	0	0
Trevethan	1,020	0	0
Andrews	998	0	0
Erswell	983	11	0
Westley	980	0	0
Davy	966	16	0
Allen	930	0	0
Grainger	845	0	0

BUILDINGS AND MONUMENTS,

EDITED BY GEORGE GODWIN, F.R.S., &c.

Part II., containing views of the Army and Navy Club House, Pall Mall; St. Stephen's Church and Schools, Westminster; Interior of the Museum of Economic Geology, with details; Chapter House of Lincoln Cathedral; New Hall, Pembroke College, Oxford; South Hackney Church; Interior of the Royal Italian Opera House, and University Galleries and Taylor Institute, Oxford, will be published on July 1st.

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